

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,159	10/11/2001	Glen Alan Jaquette	TUC920010022US1	3879
46917 7590 04/06/2007 KONRAD RAYNES & VICTOR, LLP. ATTN: IBM37			EXAMINER	
			BACKER, FIRMIN	
315 SOUTH BEVERLY DRIVE, SUITE 210 BEVERLY HILLS, CA 90212		1E 210	ART UNIT	PAPER NUMBER
	·		3621	
			T	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	09/977,159	JAQUETTE, GLEN ALAN				
Office Action Summary	Examiner	Art Unit				
	FIRMN BACKER	3621				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	Lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10 Ja	nuary 2007.					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-43</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-43</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers		·				
9) The specification is objected to by the Examine	г.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da	(PTO-413) ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

Application/Control Number: 09/977,159 Page 2

Art Unit: 3621

DETAILED ACTION

Response to Arguments

1. This is response to a appeal brief filed on January 10th, 2007. After full consideration of the brief, prosecution is hereby reopened.

2. Applicant's arguments with respect to claims 1-43 have been considered but are moot in view of the new ground(s) of rejection in view of new found prior art.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Shear et al (US PG Pub 2001/0042043).
- 5. As per claim 1, 10, 18 and 27, Shear et al teach a method for enabling access to data in a storage medium within one of a plurality of storage cartridges capable of being mounted into a interface device, comprising providing an association of at least one coding key to a plurality of storage cartridges; and encrypting the coding key, wherein the coding key is decrypted to use to

Application/Control Number: 09/977,159 Page 3

Art Unit: 3621

decode and code data stored in the storage medium of at least on of the storage cartridge (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).

- 6. As per claim 2, 19 and 28, Shear et al teach a method of using the coding key to encode data to write to the storage medium; transmitting the encoded data to the interface device to write to the storage medium in one storage cartridge mounted in the interface device; receiving encoded data from the interface device read from the storage medium; and using the coding key to decrypt the received encoded data (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 7. As per claim 3, 20, 29, Shear et al teach a method wherein the association of the at least one coding key to the plurality of storage cartridges associates one key with the plurality of storage cartridges, wherein the one key is capable of being used to encode data written to the storage medium and decode data read from the storage medium of the plurality of storage devices (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 8. As per claim 4, 21, 30, Shear et al teach a method wherein the association of the at least one coding key to the plurality of storage cartridges associates a different key with each storage cartridge, wherein the key associated with one storage cartridge is used to encode data written to the storage medium and decode data read from the storage medium of the storage cartridge (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).

Page 4

9. As per claim 5, 22, 31, Shear et al teach a method wherein the coding key comprises a seed value that is used to generate an additional key that is used to directly decode and encode the data in the storage medium in the storage cartridge (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).

- 10. As per claim 6, 32, Shear et al teach a method further comprising: transmitting the encrypted coding key to the interface device, wherein the interface device decrypts the coding key to use to decode and code data stored in the storage medium (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 11. As per claim 7, 33, Shear et al teach a method wherein encrypting the coding key further comprises: encrypting the coding key with a first key, wherein a second key used by the interface device is capable of decrypting the coding key encrypted with the first key (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- As per claim 8, 34, Shear et al teach a method wherein encrypting the coding key further comprises: encrypting the coding key with a first key, wherein a second key is capable of decrypting the coding key encrypted with the first key; encrypting the second key with a third key, wherein a fourth key used by the interface device is capable of decrypting data encrypted with the third key; and transmitting the coding key encrypted with the first key and the second key encrypted with the third key to the interface device (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).

- 13. As per claim 9, 35, Shear et al teach a method wherein encrypting the coding key further comprises: encrypting the coding key with a first key, wherein a second key is capable of decrypting the coding key encrypted with the first key; transmitting the coding key encrypted with the first key to the interface device; receiving, from the interface device, the coding key encrypted with the first key; decrypting the coding key with the second key; encrypting the coding key with a third key, wherein a fourth key used by the interface device is capable of decrypting data encrypted with the third key; and transmitting the coding key encrypted with the third key to the interface device (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 14. As per claim 10, 23 and 36, Shear et al teach a method for accessing data in a removable storage cartridge including a storage medium, comprising: receiving an encrypted coding key from a host system; decrypting the encrypted coding key; using the coding key to encode data to write to the storage medium; and using the coding key to decode data written to the storage (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 15. As per claim 11, 37, Shear et al teach a method wherein encoding the data with the coding key compresses the data and wherein decoding the data written to the storage medium decompresses the data, and wherein the data can only be encoded or decoded using the coding key (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).

- 16. As per claim 12, 24, 38, Shear et al teach a method wherein the coding key is encrypted by a first key maintained at the host system, further comprising; maintaining a second key that is capable of decrypting data encrypted using the first key, wherein the second key is used to decrypt the coding key encrypted with the first key (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 17. As per claim 13, 39, Shear et al teach a method wherein the second key is stored in an integrated circuit non-volatile memory that is only accessible to decrypting logic that uses the second key to decrypt data encrypted using the first key (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 18. As per claim 14, 25, 40, Shear et al teach a method further comprising transmitting the coding key decrypted using the decrypting logic to encoder/decoder logic, wherein the encoder/decoder logic uses the coding key to encode and decode data to the storage medium (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 19. As per claim 15, 26, 41, Shear et al teach a method comprising: storing the coding key encrypted with the first key within the storage cartridge; receiving an input/output (I/O) request directed to the storage cartridge; and accessing the encrypted coding key from the storage cartridge, wherein the accessed coding key is decrypted using the second key, and wherein the decrypted coding key is used to encode and decode data to execute the I/O request to the storage

cartridge (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).

- 20. As per claim 16, 42, Shear et al teach a method wherein the received encrypted coding key is encrypted by a first key maintained at the host system, wherein the host system maintains a second key that is capable of decrypting data encrypted using the first key, further comprising: receiving, from the host system, the second key encrypted by the host system using a third key, wherein data encrypted using the third key is capable of being decrypted using a fourth key; accessing the fourth key; using the fourth key to decrypt the encrypted second key received from the host system; and using the decrypted second key to decrypt the received coding key encrypted using the first key (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).
- 21. As per claim 17 and 43, Shear et al teach a method wherein the coding key is encrypted by a first key maintained at the host system, wherein the host system maintains a second key that is capable of decrypting data encrypted using the first key, further comprising: transmitting the encrypted coding key received from the host system back to the host system; and in response to transmitting the encrypted coding key back to the host system, receiving, from the host system, the coding key encrypted using a third key, wherein data encrypted using the third key is decrypted using a fourth key; and accessing the fourth key, wherein the coding key is decrypted using the fourth key (see figs 1A, 1B, 1C, paragraphs 0078-0081, 0127-0138, 0183, 0193-0199, 0216-0220).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FIRMIN BACKER whose telephone number is 571-272-6703. The examiner can normally be reached on Monday - Thursday 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew J. Fischer can be reached on (571) 272-6779. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FIRMIN BACKER

Art Unit 3621